## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Amend claims 1-5, 8, 20-25, 27, 38-41, and 44 as follows.

## **Listing of Claims:**

1	1. (Currently amended) A work-management method
2	comprising:
3	for a future point in time and each one of a plurality of
4	resources, determining a probability of availability of the one each
5	resource of a plurality of resources at said future point in time;
6	combining together the determined probabilities of availability of
7	the plurality of resources to obtain a number that is a result of the
8	combining; and
9	using the number to schedule new tasks for the resources for
10	the future point in time.
1	2. (Currently amended) The method of claim 1 wherein:
2	using the number to schedule new tasks comprises
3	scheduling for the future point in time no more than the number
4	of the new tasks to become available for servicing by the plurality of the
5	resources.
1	3. (Currently amended) The method of claim 2 wherein:
2	combining together the determined probabilities comprises
3	summing the probabilities to obtain the number.
1	4. (Currently amended) The method of claim 1 wherein:
2	determining a probability of availability of each resource
3	comprises

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of time;

- for each of the resources, determining an amount of time t that 4 the each resource of the plurality of resources has been servicing a task 5 6 by now; for each of the resources, determining a probability F(t+h) of 7 the resource servicing its task to completion within a total amount of time 8 t+h, where h is an amount of time; 9 10 for each of the resources, determining a probability F(t) of the 11 resource completing servicing its task by now; and for each of the resources, determining a probability P that the 12 resource will complete servicing its task at the future point in time the 13 amount of time h from now as  $\frac{F(t+h)-F(t)}{1-F(t)}$ . 14 5. (Currently amended) The method of claim 4 in a call 1 2 center wherein: the new tasks comprise calls; and 3 using the number to schedule new tasks comprises 4 in response to P, determining whether or not to initiate or 5 6 cancel an outbound call. 6. (Previously presented) A work-management method 1 comprising: 2 3 determining an amount of time t that a resource has been servicing a task by now; 4
- determining a probability F(t) of the resource completing servicing the task by now;

determining a probability F(t+h) of the resource servicing the

task to completion within a total amount of time t+h, where h is an amount

10	determining a probability P that the resource will complete
11	servicing the task within the amount of time $h$ from now as $\frac{F(t+h)-F(t)}{1-F(t)}$
12	and
13	in response to P, scheduling another task for servicing.
1	7. (Original) The method of claim 6 wherein:
2	scheduling comprises
3	in response to $P$ , determining whether or not to initiate said
4	another task.
1	8. (Currently amended) The method of claim 6 in a call
2	center wherein:
3	the new tasks comprise calls; and
4	scheduling comprises
5	in response to $P$ , determining whether or not to initiate an
6	outbound call.
1	9. (Original) The method of claim 6 further comprising:
2	performing the determining steps for a plurality of resources,
3	and
4	determining a number of the resources that will likely have
5	completed servicing their respective tasks within the amount of time h
6	from now as a sum of the probabilities $P$ determined for individual ones o
7	the plurality of resources; wherein
8	scheduling comprises
9	in response to determining the number of the resources,
10	scheduling new tasks for servicing.

10. (Original) The method of claim 9 wherein:

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2	scheduling tasks for servicing comprises scheduling no more
3	than the number of the tasks for servicing.
	11 (Original) The method of claim 6 wherein:
1	11. (Original) The method of claim 6 wherein:
2	determining a probability <i>F(t+h)</i> comprises
3	obtaining historical task-completion statistics, and
4	from the obtained statistics determining the probability $F(t+h)$ ;
5	and
6	determining a probability $F(t)$ comprises
7	from the obtained statistics determining the probability $F(t)$ .
1	12. (Original) The method of claim 11 wherein:
2	obtaining historical task-completion statistics comprises
3	obtaining a mean and a variance of time historically spent by
4	resources on servicing tasks to completion.
1	13. (Original) The method of claim 6 wherein:
2	determining a probability $F(t+h)$ comprises
3	obtaining historical task-completion statistics,
4	fitting the task-completion statistics into a lifetime closed-form
5	cumulative-probability distribution to determine parameters of the
6	distribution, and
7	evaluating the distribution with the determined parameters and
8	the total amount of time $t+h$ to obtain $F(t+h)$ ; and
9	determining a probability $F(t)$ comprises
10	evaluating the distribution with the determined parameters and
11	the amount of time $t$ to obtain $F(t)$ .
1	14. (Original) The method of claim 13 wherein:
2	obtaining historical task-completion statistics comprises
~	obtaining historical task-completion statistics comprises

3	obtaining a mean and a variance of time historically spent by
4	resources on servicing tasks to completion;
5	the cumulative-probability distribution $F$ comprises a Weibull
6	distribution; and
7	the parameters comprise a dispersion parameter and a
8	parameter of central tendency.
1	15. (Original) The method of claim 6 wherein:
2	determining an amount of time $t$ comprises
3	determining the amount of time $t$ that the resource has been
4	servicing a task of one of a plurality of different types of tasks; and
5	determining historical task-completion statistics comprises
6	determining the historical task-completion statistics for the one
7	type of tasks.
1	16. (Original) The method of claim 6 wherein:
2	scheduling another task comprises
3	in response to $P$ initiating preparation of a task that may require
4	servicing by an agent at a later time.
1	17. (Original) The method of claim 6 wherein:
2	determining a probability $F(t+h)$ comprises
3	obtaining a historical histogram for task completion, and
4	evaluating a cumulative said probability with the obtained
5	histogram for the total amount of time $t+h$ to obtain $F(t+h)$ ; and
6	determining a probability $F(t)$ comprises
7	evaluating the cumulative probability with the obtained
8	histogram for the amount of time $t$ to obtain $F(t)$ .
1	18. (Original) The method of claim 6 wherein:

2	scheduling comprises
3	in response to $P$ , canceling preparation of a task that could
4	require servicing by a resource.
	•
1	19. (Canceled)
1	20. (Currently amended) A computer-readable medium
2	containing instructions which, when executed in a computer, cause the
3	computer to perform the steps of:
4	for a future point in time and each one of a plurality of
5	resources, determining a probability of availability of the one each
6	resource of a plurality of resources at said future point in time;
7	combining together the determined probabilities of availability of
8	the plurality of resources to obtain a number that is a result of the
9	combining; and
10	using the number to schedule new tasks for the resources for
11	the future point in time.
1	21. (Currently amended) A work-management apparatus
2	comprising:
3	computer means for determining, for a future point in time and
4	each one of a plurality of resources, a probability of availability of the one
5	each resource of a plurality of resources at said future point in time;
6	computer means cooperative with the determining means for
7	combining together the determined probabilities of availability of the
8	plurality of resources to obtain a number that is a result of the combining;
9	and
10	means cooperative with the combining means for combining
11	the determined probabilities, for scheduling for the future point in time no

- more than the number of new tasks for servicing by the plurality of the resources.
- 1 22. (Currently amended) A work-management apparatus
- 2 comprising:
- means for determining an amount of time t that a resource has
- 4 been servicing a task by now;
- 5 <u>computer means cooperative with the time-determining means</u>
- for determining a probability F(t+h) of the resource servicing the task to
- 7 completion within a total amount of time t+h, where h is an amount of time;
- 8 <u>computer means cooperative with the time-determining means</u>
- for determining a probability F(t) of the resource completing servicing the
- 10 task by now;
- computer means cooperative with both of the probability-
- determining means for determining a probability *P* that the resource will
- complete servicing the task within the amount of time h from now as

$$\frac{F(t+h)-F(t)}{1-F(t)}; \text{ and }$$

- means cooperative with the P-determining means and
- responsive to P for scheduling another task for servicing.
- 1 23. (Currently amended) The apparatus of claim 21 wherein:
- the means for combining together the determined probabilities
- 3 comprise
- 4 means for summing the probabilities to obtain the number.
- 1 24. (Currently amended) The apparatus of claim 21 wherein:
- the means for determining a probability of availability of each
- 3 resource comprise

means for determining, for each resource of the plurality of 4 5 resources, an amount of time t that the resource has been servicing a task by now; 6 means for determining, for each resource of the plurality of 7 resources, a probability F(t+h) of the resource servicing its task to 8 completion within a total amount of time t+h, where h is an amount of time; 9 means for determining, for each resource of the plurality of 10 resources, a probability F(t) of the resource completing servicing its task 11 by now; and 12 means for determining, for each resource of the plurality of 13 resources, a probability P that the resource will complete servicing its task 14 at the future point in time the amount of time h from now as 15 16

- 25. (Currently amended) The apparatus of claim 2521 in a 1 call center wherein: . 2
  - the new tasks comprise calls; and 3
  - the means for scheduling comprise 4
  - means responsive to P, for determining whether or not to 5 initiate or cancel an outbound call. 6
- 26. (Previously presented) The apparatus of claim 22 1
- wherein: 2

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- the means for scheduling comprise 3
- means responsive to P, for determining whether or not to 4 initiate said another task.
- 27. (Currently amended) The apparatus of claim 22 in a call 1 center wherein: 2

3	the new tasks comprise calls; and
4	the means for scheduling comprise
5	means responsive to $P$ , for determining whether or not to
6	initiate an outbound call.
1	28. (Previously presented) The apparatus of claim 22
2	wherein:
3	the means for determining an amount of time $t$ comprise
4	means for determining the amount of time $t$ for each of a
5	plurality of resources;
6	the means for determining a probability $F(t+h)$ comprise
7	means for determining the probability $F(t+h)$ for each of the
8	plurality of resources;
9	the means for determining a probability $F(t)$ comprise
10	means for determining the probability $F(t)$ for each of the
11	plurality of resources, and
12	means for determining a number of the plurality of resources
13	that will likely have completed servicing their respective tasks within the
14	amount of time h from now as a sum of the probabilities $P$ determined for
15	individual ones of the plurality of resources; and
16	the means for scheduling comprise
17	means responsive to determining the number of the resources,
18	for scheduling new tasks for servicing.
1	29. (Previously presented) The apparatus of claim 28
2	wherein:
3	the means for scheduling comprise
4	means for scheduling no more than the number of the tasks for
5	servicing.

1		30. (Previously presented) The apparatus of claim 22
2	wherein:	
3		the means for determining a probability $F(t+h)$ comprise
4		means for obtaining historical task-completion statistics, and
5		means for determining the probability $F(t+h)$ from the obtained
6	statistics;	and
7		the means for determining a probability $F(t)$ comprise
8		means for determining the probability $F(t)$ from the obtained
9	statistics.	
1		31. (Previously presented) The apparatus of claim 30
2	wherein:	
3		the means for obtaining historical task-completion statistics
4	comprise	•
5		means for obtaining a mean and a variance of time historically
6	spent by r	esources on servicing tasks to completion.
		00 (D )   1   1   1   1   1   1   1   1   1
1		32. (Previously presented) The apparatus of claim 22
2	wherein:	About a constant data marining a constant little (F/A th) according
3		the means for determining a probability $F(t+h)$ comprise
4		means for obtaining historical task-completion statistics,
5	alacad far	means for fitting the task-completion statistics into a lifetime
6		m cumulative-probability distribution to determine parameters of
7	the distrib	
8	naramata	means for evaluating the distribution with the determined
9	parametei	rs and the total amount of time $t+h$ to obtain $F(t+h)$ ; and
10		the means for determining a probability <i>F(t)</i> comprise
11	naramoto	means for evaluating the distribution with the determined
12	parameter	rs and the amount of time $t$ to obtain $F(t)$ .

1		33. (Previously presented) The apparatus of claim 32
2	wherein:	
3		the means for obtaining historical task-completion statistics
4	comprise	
5		means for obtaining a mean and a variance of time historically
6	spent by r	resources on servicing tasks to completion;
7		the cumulative-probability distribution F comprises a Weibull
8	distributio	n; and
9		the parameters comprise a dispersion parameter and a
10	paramete	r of central tendency.
1		34. (Previously presented) The apparatus of claim 22
2	wherein:	
3		the means for determining an amount of time $t$ comprise
4		means for determining the amount of time $\emph{t}$ that the resource
5	has been	servicing a task of one of a plurality of different types of tasks;
6	and	
7		the means for determining historical task-completion statistics
8	comprise	
9		means for determining the historical task-completion statistics
10	for the on	e type of tasks.
1		35. (Previously presented) The apparatus of claim 22
2	wherein:	
3		the means for scheduling another task comprise
4		means responsive to $\boldsymbol{P}$ for initiating preparation of a task that
5	may requi	ire servicing by an agent at a later time.
1		36. (Previously presented) The apparatus of claim 22
2	wherein:	

3	the means for determining a probability $F(t+n)$ comprise
4	means for obtaining a historical histogram for task completion,
5	and
6	means for evaluating a cumulative said probability with the
7	obtained histogram for the total amount of time $t+h$ to obtain $F(t+h)$ ; and
8	the means for determining a probability $F(t)$ comprise
9	means for evaluating the cumulative probability with the
10	obtained histogram for the amount of time $t$ to obtain $F(t)$ .
1	37. (Previously presented) The apparatus of claim 22
2	wherein:
3	the means for scheduling comprise
4	means responsive to $P$ , for canceling preparation of a task tha
5	could require servicing by a resource.
1	38. (Currently amended) The medium of claim 20 wherein:
2	using the number to schedule new tasks comprises
3	scheduling for the future point in time no more than the number
4	of the new tasks to become available for servicing by the plurality of the
5	resources.
4	20. (Currently amonded). The medium of claim 29 wherein:
1	39. (Currently amended) The medium of claim 38 wherein:
2	combining together the determined probabilities comprises summing the probabilities to obtain the number.
3	summing the probabilities to obtain the number.
1	40. (Currently amended) The medium of claim 20 wherein:
2	determining a probability of availability of each resource
3	comprises
4	for each <u>resource</u> of the <u>plurality of</u> resources, determining an
5	amount of time t that the resource has been servicing a task by now;

for each resource of the plurality of resources, determining a 6 7 probability F(t+h) of the resource servicing its task to completion within a total amount of time t+h, where h is an amount of time; 8 for each resource of the plurality of resources, determining a 9 probability F(t) of the resource completing servicing its task by now; and 10 for each resource of the plurality of resources, determining a 11 12 probability P that the resource will complete servicing its task at the future point in time the amount of time h from now as  $\frac{F(t+h)-F(t)}{1-F(t)}$ . 13

- 1 41. (Currently amended) The method of claim 40 for a call center wherein:
- the new tasks comprise calls; and
  using the number to schedule new tasks comprises
  in response to P, determining whether or not to initiate or
  cancel an outbound call.
- 1 42. **(Previously presented)** A computer-readable medium 2 containing instructions which, when executed in a computer, cause the 3 computer to perform the steps of:
- determining an amount of time *t* that a resource has been servicing a task by now;
- determining a probability F(t+h) of the resource servicing the task to completion within a total amount of time t+h, where h is an amount of time;
- determining a probability F(t) of the resource completing servicing the task by now;

11	determining a probability P that the resource will complete
12	servicing the task within the amount of time $h$ from now as $\frac{F(t+h)-F(t)}{1-F(t)}$ ;
13	and
14	in response to P, scheduling another task for servicing.
1	43. (Previously presented) The method of claim 42 wherein:
2	scheduling comprises
3	in response to $P$ , determining whether or not to initiate said
4	another task.
1	44. (Currently amended) The medium of claim 42 for a call
2	center wherein:
3	the new tasks comprise calls; and
4	scheduling comprises
5	in response to $P$ , determining whether or not to initiate an
6	outbound call.
1	45. (Previously presented) The medium of claim 42 further
2	comprising instructions which, when executed in the computer, cause the
3	computer to perform the steps of:
4	performing the determining steps for a plurality of resources,
5	and
6	determining a number of the resources that will likely have
7	completed servicing their respective tasks within the amount of time h
8	from now as a sum of the probabilities P determined for individual ones of
9	the plurality of resources; wherein
10	scheduling comprises
11	in response to determining the number of the resources,
12	scheduling new tasks for servicing.

1	46. (Previously presented) The medium of claim 45 wherein:
2	scheduling tasks for servicing comprises scheduling no more
3	than the number of the tasks for servicing.
1	47. (Previously presented) The medium of claim 42 wherein:
2	determining a probability <i>F(t+h)</i> comprises
3	obtaining historical task-completion statistics, and
4	from the obtained statistics determining the probability $F(t+h)$ ;
5	and
6	determining a probability $F(t)$ comprises
7	from the obtained statistics determining the probability $F(t)$ .
1	48. (Previously presented) The medium of claim 47 wherein:
2	obtaining historical task-completion statistics comprises
3	obtaining a mean and a variance of time historically spent by
4	resources on servicing tasks to completion.
1	49. (Previously presented) The medium of claim 42 wherein:
2	determining a probability $F(t+h)$ comprises
3	obtaining historical task-completion statistics,
4	fitting the task-completion statistics into a lifetime closed-form
5	cumulative-probability distribution to determine parameters of the
6	distribution, and
7	evaluating the distribution with the determined parameters and
8	the total amount of time $t+h$ to obtain $F(t+h)$ ; and
9	determining a probability $F(t)$ comprises
10	evaluating the distribution with the determined parameters and
11	the amount of time $t$ to obtain $F(t)$ .
1	50. (Previously presented) The medium of claim 49 wherein:

2	obtaining historical task-completion statistics comprises
3	obtaining a mean and a variance of time historically spent by
4	resources on servicing tasks to completion;
5	the cumulative-probability distribution $F$ comprises a Weibull
6	distribution; and
7	the parameters comprise a dispersion parameter and a
8	parameter of central tendency.
1	51. (Previously presented) The method of claim 42 wherein:
2	determining an amount of time t comprises
3	determining the amount of time $t$ that the resource has been
4	servicing a task of one of a plurality of different types of tasks; and
5	determining historical task-completion statistics comprises
6	determining the historical task-completion statistics for the one
7	type of tasks.
1	52. (Previously presented) The medium of claim 42 wherein:
2	scheduling another task comprises
3	in response to $P$ initiating preparation of a task that may require
4	servicing by an agent at a later time.
1	53. (Previously presented) The medium of claim 42 wherein:
2	determining a probability $F(t+h)$ comprises
3	obtaining a historical histogram for task completion, and
4	evaluating a cumulative said probability with the obtained
5	histogram for the total amount of time $t+h$ to obtain $F(t+h)$ ; and
6	determining a probability $F(t)$ comprises
7	evaluating the cumulative probability with the obtained
8	histogram for the amount of time $t$ to obtain $F(t)$ .

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  - 1 54. (Previously presented) The medium of claim 42 wherein:
  - 2 scheduling comprises
  - 3 in response to P, canceling preparation of a task that could require
  - 4 servicing by a resource.